

# Material: IS 306

## Standard Specification for Tin Bronze Ingots and Castings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 306 Tin Bronze Ingots and Castings

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Ingot and Casting

Chemical Composition		
Tin	Sn %	9.500 - 10.500
Zinc	Zn %	1.500 - 3.000
Lead	Pb %	1.500 max.
Nickel	Ni %	1.000 max.
Iron	Fe %	0.150 max.
Aluminium	Al %	0.010 max.
Silicon	Si %	0.020 max.
Bismuth	Bi %	0.030 max.
Other	Ot%	0.500 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	260 min.
Yield Strength in Mpa	120 min.
Elongation in %	13 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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